

JAVA.UTIL.GREGORIANCALENDAR.ROLL METHOD

http://www.tutorialspoint.com/java/util/gregorianCalendar_roll.htm

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Description

The **java.util.GregorianCalendar.roll**(*int* field, *boolean* up) method adds or subtracts *up/down* a single unit of time on the given time field without changing larger fields.

Declaration

Following is the declaration for **java.util.GregorianCalendar.roll** method

```
public void roll(int field, boolean up)
```

Parameters

- **up** -- indicates if the value of the specified calendar field is to be rolled up or rolled down. Use true if rolling up, false otherwise.
- **field** -- the time field.

Return Value

This method does not return a value.

Exception

- **IllegalArgumentException** -- if field is ZONE_OFFSET, DST_OFFSET, or unknown, or if any calendar fields have out-of-range values in non-lenient mode.

Example

The following example shows the usage of java.util.GregorianCalendar.roll method.

```
package com.tutorialspoint;

import java.util.*;

public class GregorianCalendarDemo {

    public static void main(String[] args) {

        // create a new calendar
        GregorianCalendar cal =
            (GregorianCalendar) GregorianCalendar.getInstance();

        // print the current date and time
        System.out.println(" " + cal.getTime());

        // roll a month
        cal.roll(GregorianCalendar.MONTH, true);
        System.out.println("Date:" + cal.getTime());

        // roll a year backwards
        cal.roll(GregorianCalendar.YEAR, false);
        System.out.println("Date:" + cal.getTime());

    }
}
```

Let us compile and run the above program, this will produce the following result:

```
Fri May 18 13:31:57 EEST 2012
```

Date: Mon Jun 18 13:31:57 EEST 2012

Date: Sat Jun 18 13:31:57 FEET 2011

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